Performance Data Sheet

AWF5518EVA

General Information

Model	AWF5518EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	4220	3390					
	Watts	630	610					
	Amps	3.11	2.91					
	Lb/h	55.1	45.9					
-10	Btu/h	5080	4270	3400				
	Watts	686	682	659				
	Amps	3.33	3.22	3.07				
	Lb/h	65.4	57.1	47.5				
-5	Btu/h	6050	5250	4390	3490			
	Watts	731	743	736	711			
	Amps	3.50	3.48	3.42	3.30			
	Lb/h	77.2	69.6	60.5	50.5			
0	Btu/h	7140	6330	5460	4560	3640		
	Watts	768	796	804	795	769		
	Amps	3.64	3.71	3.73	3.70	3.58		
	Lb/h	90.3	83.2	74.7	65.1	54.8		
5	Btu/h	8350	7520	6630	5700	4760		
	Watts	796	839	863	869	859		
	Amps	3.75	3.90	4.00	4.05	4.02		
	Lb/h	105	98.2	90.0	80.7	70.6		
10	Btu/h	9710	8830	7900	6920	5940	4980	4070
	Watts	816	874	914	935	940	930	906
	Amps	3.82	4.05	4.24	4.36	4.42	4.38	4.23
	Lb/h	121	115	107	97.3	87.4	77.0	66.5
15	Btu/h	11200	10300	9270	8240	7200	6180	5200
	Watts	829	902	956	993	1010	1020	1010
	Amps	3.87	4.17	4.43	4.64	4.77	4.81	4.74
	Lb/h	139	132	124	115	105	94.5	83.9
20	Btu/h	12900	11900	10800	9660	8540	7440	6380
	Watts	835	923	992	1040	1080	1100	1100
	Amps	3.88	4.26	4.59	4.87	5.07	5.19	5.20
	Lb/h	159	152	144	134	124	113	102

25	Btu/h	14700	13600	12400	11200	9970	8770	7620
	Watts	834	937	1020	1090	1140	1170	1190
	Amps	3.88	4.32	4.72	5.07	5.34	5.53	5.62
	Lb/h	180	173	164	154	144	132	121
30	Btu/h	16700	15500	14200	12800	11500	10200	8920
	Watts	828	945	1040	1120	1190	1240	1270
	Amps	3.85	4.35	4.82	5.23	5.57	5.83	5.98
	Lb/h	203	196	186	176	164	153	141
35	Btu/h	18900	17500	16100	14600	13100	11700	10300
	Watts	817	948	1060	1160	1230	1300	1350
	Amps	3.79	4.36	4.89	5.36	5.77	6.09	6.31
	Lb/h	228	220	210	199	187	174	161
40	Btu/h	21200	19700	18100	16500	14900	13300	11700
	Watts	801	946	1070	1180	1270	1350	1410
	Amps	3.73	4.35	4.93	5.47	5.93	6.31	6.59
	Lb/h	256	246	236	223	210	197	183
45	Btu/h	23800	22100	20300	18600	16800	15000	13300
	Watts	781	940	1080	1200	1310	1400	1480
	Amps	3.64	4.31	4.95	5.54	6.06	6.50	6.84
	Lb/h	285	275	263	249	235	220	205
50	Btu/h	26600	24700	22700	20800	18800	16800	14900
	Watts	757	930	1080	1220	1340	1440	1540
	Amps	3.54	4.26	4.95	5.59	6.16	6.66	7.05
	Lb/h	316	305	292	277	262	245	229
55	Btu/h	29600	27500	25300	23100	20900	18800	16700
	Watts	731	917	1080	1230	1370	1490	1590
	Amps	3.43	4.20	4.93	5.62	6.24	6.78	7.23
	Lb/h	350	337	323	307	290	272	254

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.060337E+03	-2.999910E+02	3.347804E+00	5.262475E+01
C2	2.602264E+02	-1.842388E+01	-1.015927E-01	1.876580E+00
C3	8.244446E+01	2.439569E+01	-1.821277E-02	1.947800E+00
C4	5.518960E+00	-1.394209E-01	-8.509540E-05	5.776215E-02
C5	-4.136099E-01	3.110972E-01	1.485750E-03	1.354032E-02
C6	-1.537232E+00	-1.560657E-01	4.841882E-04	-2.322378E-02
C7	1.159748E-02	7.509211E-04	2.918939E-06	1.004527E-04
C8	-3.663028E-02	-3.949369E-04	-7.380470E-06	-3.477029E-04
C9	4.907309E-04	-2.056877E-06	1.125057E-06	-2.893145E-05
C10	4.527781E-03	2.251470E-04	-2.635074E-06	5.952631E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AWF5518EVA

General Information

Model	AWF5518EVA	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3930	3340					
	Watts	828	790					
	Amps	4.09	3.94					
	Lb/h	50.6	45.0					
-10	Btu/h	5030	4330	3690				
	Watts	898	871	847				
	Amps	4.28	4.17	4.07				
	Lb/h	64.5	57.8	51.6				
-5	Btu/h	6290	5480	4720	4020			
	Watts	959	944	931	918			
	Amps	4.44	4.38	4.32	4.27			
	Lb/h	80.1	72.5	65.3	58.2			
0	Btu/h	7710	6780	5900	5070	4300		
	Watts	1010	1010	1010	1000	999		
	Amps	4.58	4.56	4.55	4.53	4.50		
	Lb/h	97.5	89.1	80.9	72.7	64.6		
5	Btu/h	9280	8240	7240	6280	5380		
	Watts	1060	1070	1080	1080	1090		
	Amps	4.69	4.72	4.75	4.77	4.78		
	Lb/h	117	108	98.4	89.3	80.0		
10	Btu/h	11000	9860	8740	7660	6620	5620	4660
	Watts	1090	1120	1140	1160	1170	1170	1170
	Amps	4.78	4.86	4.93	5.00	5.04	5.06	5.03
	Lb/h	138	128	118	108	97.6	86.9	75.7
15	Btu/h	12900	11600	10400	9200	8020	6880	5780
	Watts	1120	1160	1200	1230	1250	1260	1260
	Amps	4.84	4.97	5.09	5.20	5.29	5.34	5.35
	Lb/h	160	150	139	129	117	106	93.3
20	Btu/h	15000	13600	12200	10900	9590	8310	7050
	Watts	1130	1190	1250	1290	1320	1350	1350
	Amps	4.88	5.06	5.23	5.39	5.52	5.61	5.65
	Lb/h	185	174	163	151	139	127	113

25	Btu/h	17200	15700	14200	12800	11300	9900	8500
	Watts	1140	1220	1290	1350	1390	1430	1440
	Amps	4.89	5.12	5.35	5.55	5.73	5.86	5.94
	Lb/h	211	200	188	176	163	150	135
30	Btu/h	19600	18000	16400	14800	13200	11700	10100
	Watts	1130	1230	1320	1400	1460	1500	1530
	Amps	4.87	5.16	5.44	5.70	5.92	6.09	6.21
	Lb/h	239	228	215	203	189	175	160
35	Btu/h	22200	20500	18700	17000	15300	13600	11900
	Watts	1120	1240	1350	1440	1520	1570	1610
	Amps	4.83	5.18	5.52	5.82	6.09	6.31	6.47
	Lb/h	269	257	245	232	218	203	187
40	Btu/h	24900	23100	21300	19400	17600	15700	13900
	Watts	1090	1240	1370	1480	1570	1640	1690
	Amps	4.77	5.18	5.57	5.93	6.25	6.51	6.72
	Lb/h	301	289	276	262	248	232	216
45	Btu/h	27900	25900	24000	22000	20000	18000	16000
	Watts	1050	1220	1370	1500	1610	1700	1760
	Amps	4.68	5.15	5.60	6.02	6.39	6.70	6.95
	Lb/h	334	322	309	295	280	264	247
50	Btu/h	31000	28900	26800	24700	22600	20500	18300
	Watts	1010	1200	1370	1530	1650	1760	1830
	Amps	4.56	5.10	5.61	6.08	6.51	6.87	7.16
	Lb/h	369	357	344	330	315	299	281
55	Btu/h	34300	32100	29900	27600	25400	23100	20800
	Watts	948	1170	1370	1540	1690	1810	1900
	Amps	4.43	5.03	5.60	6.13	6.61	7.03	7.37
	Lb/h	406	394	381	367	352	335	317

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.669601E+04	1.176945E+03	6.304954E+00	1.894328E+02
C2	4.307581E+02	-2.778828E+01	-7.500004E-02	4.119296E+00
C3	-1.272545E+02	-5.151816E+00	-5.162724E-02	-1.578044E+00
C4	3.191028E+00	-3.660494E-01	-8.015549E-04	2.095192E-02
C5	-1.091817E+00	6.376373E-01	1.528540E-03	3.366677E-03
C6	1.585662E-01	5.473069E-02	5.182584E-04	7.148550E-03
C7	2.910987E-03	-3.214767E-04	8.355640E-08	2.718744E-07
C8	-6.573655E-05	2.345190E-03	3.659013E-06	1.805100E-04
C9	-6.958111E-03	-2.124793E-03	-3.498084E-06	-1.141254E-04
C10	3.423618E-04	-2.015410E-04	-1.778036E-06	-2.225318E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature